

PATENT

Reply under 37 CFR 1.116

EXPEDITED PROCEDURE

Group 2834

REMARKS

Claims 17-35 are pending in this application. Claims 17-20, 23-25, 31, 32 and 34 are rejected and claims 21, 22, 26-30, 33 and 35 are allowed. Claims 17 and 31 are amended hereby.

The Examiner has indicated on page 1 of the Office Action that claims 21, 22, 26-30, 33 and 35 are allowed. The Applicant thanks the Examiner for this determination. However, on page 2 of the Office Action the Examiner has indicated an objection to the same claims. Applicant has previously amended claims 21, 22, 26, 33 and 35, to place these claims in independent form including all of the limitation of the base claim and any intervening claims. Accordingly, Applicant submits that claims 21, 22, 26-30, 33 and 35 are allowable as indicated on page 1 of the Office Action.

Responsive to the rejection of claims 17-20, 23-25, 31, 32 and 34 under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 4,771,197 (Ivanto et al.) in view of U.S. Patent No. 4,761,602 (Leibovich), Applicant has amended claims 17 and 31, and submits that claims 17-20, 23-25, 31, 32 and 34 are now in condition for allowance.

Ivanto et al. disclose a frequency converter-controlled squirrel cage motor 8 (Figs. 1 and 2) including a stationary axle 4 fixed to stands 12. On axle 4, stator 3 is integrally mounted, and electric leads 7 coming to stator 3 run through a cable entry 6 provided in axle 4. Cylinder 1 is rotatably carried on stationary axle 4 by way of end plates 13 and bearings 5 (column 1, line 62 through column 2, line 4).

Leibovich discloses a compound short circuit induction machine including a rotor winding 20 having a plurality of conductor elements 21a, 21b, etc., which are electrically connected by end rings 22 and 23. End rings 22 and 23 may be welded or brazed to the ends of conductor elements 21a, 21b, etc. (column 6, lines 10-23).

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In contrast claim 17, as amended, recites in part, "a hollow non-rotary shaft carrying said stator." (Emphasis added). Applicant submits that such an invention is neither taught, disclosed nor suggested by Ivanto et al., Leibovich or any of the other cited references, alone or in combination, and includes distinct advantages thereover.

Ivanto et al. disclose a frequency converter-controlled squirrel cage motor 8 including a stationary axle 4, upon which stator 3 is integrally mounted. Cylinder 1 is rotatably carried on stationary axle 4 by way of end plates 13 and bearings 5. Leibovich discloses a compound short circuit induction machine including a rotor winding 20 having a plurality of conductor elements 21a, 21b, which are electrically connected by end rings 22 and 23. However, Ivanto et al. and Leibovich, combined, separately or in combination with any other cited reference, fail to disclose or suggest a hollow non-rotary shaft carrying a stator, as recited in claim 17.

Applicant's invention has distinct advantages in that the hollow shaft carrying the stator allows for the cooling of the assembly. For all of the foregoing reasons, Applicant submits that claim 17, and claims 18-20 and 23-25 depending therefrom, are now in condition for allowance, which is hereby respectfully requested.

In further contrast claim 31, as amended, recites in part, "mounting a stator on a hollow non-rotary shaft." (Emphasis added). Applicant submits that such an invention is neither taught, disclosed nor suggested by Ivanto et al., Leibovich or any of the other cited references, alone or in combination, and includes distinct advantages thereover.

Ivanto et al. disclose a frequency converter-controlled squirrel cage motor 8 including a stationary axle 4, upon which stator 3 is integrally mounted. Cylinder 1 is rotatably carried on stationary axle 4 by way of end plates 13 and bearings 5. Leibovich discloses a compound short circuit induction machine including a rotor winding 20 having a plurality of conductor elements

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21a, 21b, which are electrically connected by end rings 22 and 23. However, Ivanto et al. and Leibovich, combined, separately or in combination with any other cited reference, fail to disclose or suggest the step of mounting a stator on a hollow non-rotary shaft, as recited in claim 31.

Applicant's invention has distinct advantages in that the hollow shaft carrying the stator allows for the cooling of the assembly. For all of the foregoing reasons, Applicant submits that claim 31, and claims 32 and 34 depending therefrom, are now in condition for allowance, which is hereby respectfully requested.

For the foregoing reasons, Applicant submits that no combination of the cited references teaches, discloses or suggests the subject matter of the amended claims. The pending claims are therefore in condition for allowance, and Applicant respectfully requests withdrawal of all rejections and allowance of the claims.

In the event Applicant has overlooked the need for an extension of time, an additional extension of time, payment of fee, or additional payment of fee, Applicant hereby conditionally petitions therefor and authorizes that any charges be made to Deposit Account No. 20-0095,
TAYLOR & AUST, P.C.

05/23/2003 13:40 260-897-9300

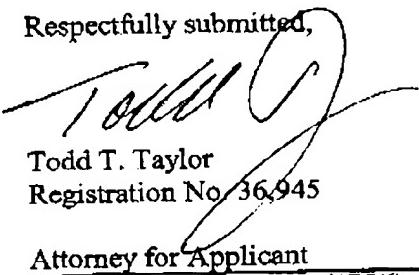
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Should any question concerning any of the foregoing arise, the Examiner is invited to telephone the undersigned at (260) 897-3400.

Respectfully submitted,



Todd T. Taylor
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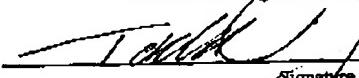
Attorney for Applicant

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Todd T. Taylor, Reg. No. 36,945

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